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Jameco Part Number 234155 (1694A-010-500)

Detailed Specifications & Technical Data

1694A Coax - Precision Video Cable for Analog and Digital

Picture Not Available	For more information please call 1-800-Belden1 See Put-ups and Colors

Description:

75 Ohm precision video coax, 18 AWG solid bare copper, gas-injected foam HDPE core, Duofoil® + 95% tinned copper braid, PVC jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
RG Type	6/U
AWG	18
Stranding	solid
Conductor Diameter	.040 in.
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	Gas-injected FHDPE - Foam High Density Polyethylene
Insulation Diameter	.180 in.

OUTER SHIELD:

Outer Shield Type	Tape/Braid

Outer Shield Material :

Layer Number	Trade Name	Type	Material	% Coverage (%)
1	Duofoil®	Tape		100
2		Braid	Tinned Copper	95

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.275 in.

MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-30°C To +75°C
Temperature Rating	75°C
Bulk Cable Weight	40 lbs/1000 ft.
Max. Recommended Pulling Tension	69 lbs.
Min. Bend Radius (Install)	2.75 in.

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APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMR
CEC/C(UL) Specification	CMG

FLAME TEST:

UL Flame Test	1666 Vertical Shaft
C(UL) Flame Test	FT4

SUITABILITY:

Suitability - Indoor	All colors
Suitability - Outdoor	Black only
Suitability - Aerial	Black only, when supported by a messenger wire
Suggested Connectors	AMP 221185-1 Dual Crimp Gold Pin BNC (75 Ohms); Amphenol 31-70000 Dual Crimp Gold Pin BNC (75 Ohms); Kings 2065-10-9 Dual Crimp Gold Pin (75 Ohms); Trompeter UPL220-20 Dual Crimp Gold Pin BNC (75 Ohm); ADC BNC-1694D Dual Crimp Gold Pin BNC (75 Ohm)

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
Non-Plenum Number	1695A

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	75 +/- 1.5 Ohms
Nom. Inductance	0.106 µH/ft
Nom. Capacitance Conductor to Shield	16.2 pF/ft
Nominal Velocity of Propagation	82 %
Nominal Delay	1.24 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	6.4 Ohms/1000 ft
Nominal Outer Shield DC Resistance	2.8 Ohms/1000 ft

Minimum Return Loss :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum Return Loss (dB)
Minimum Return Loss		5	850	23
		851	3000	21

Nom. Attenuation :

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
Nominal Attenuation	1			0.24
	3.58			0.45
	5			0.54
	7			0.63
	10			0.72
	67.5			1.57
	71.5			1.60
	88.5			1.75
	100			1.84
	135			2.10
	143			2.16
	180			2.42
	270			2.97
	360			3.43
	540			4.25
	720			4.95
	750			5.00
	1000			5.89
	1500			7.33
	2000			8.57
	2250			9.14
	3000			10.67

Max. Operating Voltage - UL	300 V RMS

NOTES:

Notes	Impedance Tested in Accordance With ASTM D-4566 Paragraph 43.2, Option 2 Using a 75 Ohm Fixed Bridge and Termination. Return Loss Tested in Accordance With ASTM D-4566 Paragraph 45.3, Using a 75 Ohm Fixed Bridge and Termination.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1694A 0011000	#18 PE/GIFHDPE SH FR PVC	1000	45	BROWN	C
1694A 0014500	#18 PE/GIFHDPE SH FR PVC	4500	202.5	BROWN	C
1694A 0021000	#18 PE/GIFHDPE SH FR PVC	1000	45	RED	C
1694A 0024500	#18 PE/GIFHDPE SH FR PVC	4500	202.5	RED	C
1694A 0031000	#18 PE/GIFHDPE SH FR PVC	1000	45	ORANGE	C
1694A 0034500	#18 PE/GIFHDPE SH FR PVC	4500	202.5	ORANGE	C
1694A 0041000	#18 PE/GIFHDPE SH FR PVC	1000	45	YELLOW	C
1694A 0044500	#18 PE/GIFHDPE SH FR PVC	4500	202.5	YELLOW	C

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1694A 0061000	#18 PE/GIFHDPE SH FR PVC	1000	45	BLUE, LIGHT	C
1694A 0064500	#18 PE/GIFHDPE SH FR PVC	4500	202.5	BLUE, LIGHT	C
1694A 0071000	#18 PE/GIFHDPE SH FR PVC	1000	45	VIOLET	C
1694A 0074500	#18 PE/GIFHDPE SH FR PVC	4500	202.5	VIOLET	C
1694A 0081000	#18 PE/GIFHDPE SH FR PVC	1000	45	GRAY	C
1694A 0084500	#18 PE/GIFHDPE SH FR PVC	4500	202.5	GRAY	C
1694A 0091000	#18 PE/GIFHDPE SH FR PVC	1000	45	WHITE	C
1694A 0094500	#18 PE/GIFHDPE SH FR PVC	4500	202.5	WHITE	C
1694A 0101000	#18 PE/GIFHDPE SH FR PVC	1000	45	BLACK	C
1694A 0104500	#18 PE/GIFHDPE SH FR PVC	4500	202.5	BLACK	C
1694A 010500	#18 PE/GIFHDPE SH FR PVC	500	22.5	BLACK	C
1694A N3U1000	#18 PE/GIFHDPE SH FR PVC	1000	45	GREEN, MIL	C
1694A N3U4500	#18 PE/GIFHDPE SH FR PVC	4500	202.5	GREEN, MIL	C

C = CRATE REEL PUT-UP.

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